Appendix A. Test Sequences Mapped to External Interfaces

The left column of this table lists each interface external to the Release A ECS LaRC DAAC. In the right column is a list of test sequences which contains tests involving that external interface.

External Interface	LaRC Test Sequence
EDOS (Simulator)	9.1.1 Data Ingest, Process, and Archive at LaRC DAAC from SDPF Sequence
	9.1.3 Early AM-1 Interface Test Support Sequence
	12.1.2 Multi-Site System Management Sequence
	12.5.1 Data Ingest, Data Server and Data Distribution Performance Sequence
	12.5.4 ECS Testability and Overall Capabilities Sequence
EOC	8.1.7 Facilities Interfaces Sequence
	8.6.1 Fault Management Sequence
	12.1.1 Inter-Site Message Sequence
Global Change Master	10.1.1 ECS Desktop User Sequence
Directory (GCMD)	10.1.2 ECS/Version 0 (V0) System Interoperability Sequence
	10.1.3 EOSDIS Core System (ECS)/Affiliated Data Center (ADC) Interoperability Sequence
GSFC V0 DAAC	8.1.7 Facilities Interfaces Sequence
	12.4.4 ECS Data Set Interoperability Sequence
SDPF	8.1.7 Facilities Interfaces Sequence
	9.1.1 Data Ingest, Process, and Archive at LaRC DAAC from SDPF
	Sequence
	12.1.2 Multi-Site System Management Sequence
	12.2.1 SDPF Data Handling and Processing Sequence
	12.5.1 Data Ingest, Data Server and Data Distribution Performance Sequence

External Interface	LaRC Test Sequence
SMC	8.1.5 Site Maintenance Sequence
	8.1.7 Facilities Interfaces Sequence
	8.2.1 Schedule Generation Sequence
	8.2.2 Schedule Adjudication Sequence
	8.3.1 Enhancements Sequence
	8.4.1 Resource Management Sequence
	8.4.3 Logistics Management Sequence
	8.4.4 Training Management Sequence
	8.4.5 Inventory Management Sequence
	8.4.6 Quality Management Sequence
	8.4.7 Policies and Procedures Management Sequence
	8.5.1 Metrics Sequence
	8.5.2 Performance Monitoring, Analysis & Testing Sequence
	8.6.1 Fault Management Sequence
	8.6.2 Security Management Sequence
	8.6.4 Report Generation Sequence
	9.2.1 Higher Level Processed Data Receipt from the V0 DAAC Sequence
	9.2.5 Higher Level Processed Data Receipt from the NOAA ADC to the LaRC DAAC Sequence
	9.5.3 Maintain Processing Plans and Schedules Sequence
	10.1.1 ECS Desktop User Sequence
	10.2.2 LaRC SCF/ECS Sequence
	12.1.1 Inter-Site Message Sequence
	12.1.2 Multi-Site System Management Sequence
	12.2.1 SDPF Data Handling and Processing Sequence
	12.5.1 Data Ingest, Data Server and Data Distribution Performance
	Sequence
	12.5.4 ECS Testability and Overall Capabilities Sequence
CERES SCF (Simulated)	9.3.1 Reprocessing Request Receipt/Processing from the SCF (LaRC) Sequence
	10.2.2 LaRC SCF/ECS Sequence
	12.2.3 TRMM Data Product Distribution Sequence
	12.5.1 Data Ingest, Data Server and Data Distribution Performance Sequence
NOAA ADC	8.1.7 Facilities Interfaces Sequence
	9.2.5 Higher Level Processed Data Receipt from the NOAA ADC to the LaRC DAAC Sequence
	10.1.3 EOSDIS Core System (ECS)/Affiliated Data Center (ADC) Interoperability Sequence
	12.4.4 ECS Data Set Interoperability Sequence
	12.7.7 200 Data Oct Interoperability Dequence

External Interface	LaRC Test Sequence
GSFC ECS DAAC	8.1.5 Site Maintenance Sequence
	8.1.7 Facilities Interfaces Sequence
	8.3.1 Enhancements Sequence
	8.6.1 Fault Management Sequence
	10.1.1 ECS Desktop User Sequence
	12.1.1 Inter-Site Message Sequence
	12.1.2 Multi-Site System Management Sequence
	12.4.1 Science Data Search and Retrieval Sequence
	12.5.1 Data Ingest, Data Server and Data Distribution Performance
	Sequence
	12.5.4 ECS Testability and Overall Capabilities Sequence
EDC ECS DAAC	8.1.7 Facilities Interfaces Sequence
	8.6.1 Fault Management Sequence
	12.1.1 Inter-Site Message Sequence
MSFC SCF	10.3.1 ECS/ADC Interoperability Sequence
LaRC V0 DAAC	8.1.7 Facilities Interfaces Sequence
	9.2.1 Higher Level Processed Data Receipt from the V0 DAAC Sequence
	10.1.1 ECS Desktop User Sequence
	10.1.2 ECS/Version 0 (V0) System Interoperability Sequence
	10.1.3 EOSDIS Core System (ECS)/Affiliated Data Center (ADC) Interoperability Sequence
	10.2.2 LaRC SCF/ECS Sequence
	12.5.1 Data Ingest, Data Server and Data Distribution Performance Sequence
	12.5.4 ECS Testability and Overall Capabilities Sequence
EDC V0 DAAC	8.1.7 Facilities Interfaces Sequence
MSFC V0 DAAC	8.1.7 Facilities Interfaces Sequence
LaRC ECS DAAC	10.2.2 LaRC SCF/ECS Sequence

Appendix B. Test Sequences Mapped to Operations Scenarios

The left column of this table lists each operational scenario from the ECS Operations Scenarios - Release A (605/OP1). In the right column is a list of test sequences which contains tests involving that operational scenario.

Almost all of the ops. scenarios (except those related to TSDIS) will be included in the LaRC Volume. In addition, some of the ops scenarios are only related to LaRC and will be in only that volume.

Table B-1. Test Sequences Mapped to Operations Scenarios

Operational Connection	
Operational Scenario	Test Sequence Number
3.1 Computer System Administration Activities	
3.1.1 ECS System Shutdown/Startup Scenario	8.1.2 Site Start-up Sequence
3.1.2 Computer System Administration Backup & Restore/Recovery	8.1.4 Site Shutdown/Recovery Sequence 8.1.6 Site Data/Metadata/Information Management Sequence
3.2 Problem Management Activities	
3.2.1 Trouble Ticket and Problem Tracking Scenario	
3.3 Fault Management Activities	8.4.7 Policies and Procedures Management Sequence
3.3.1 Production Failure Scenario	
3.4 Configuration Management (CM) Activities	8.4.5 Inventory Management Sequence
3.4.1 COTS Hardware Problem Scenario	
3.4.2 Hardware Emergency Change Scenario	
3.4.3 COTS Software Problem Scenario	
3.4.4 Custom Software Problem Scenario	
3.4.5 COTS Software Upgrade Scenario	
3.4.6 Add New Science Algorithm Scenario	10.2.2 LaRC SCF/ECS Sequence
3.4.7 System Enhancement Request Scenario	8.3.1 Enhancements Sequence
3.5 Performance Management Activities	8.4.6 Quality Management Sequence
3.5.1 Operations Support Scenario	8.5.1 Metrics Sequence
3.5.2 User Notes Performance Degradation	8.5.1 Metrics Sequence
	8.5.2 Performance Monitering, Analysis & Testing Sequence

Operational Scenario	Test Sequence Number
3.5.3 Preparing for New Algorithm Scenario	8.5.2 Performance Monitering, Analysis & Testing Sequence
3.5.4 Performance Trending Scenario	8.5.2 Performance Monitering, Analysis & Testing Sequence
3.6 Security Management	
3.6.1 Security Management Login Failure Scenario	8.6.2 Security Management Sequence
3.6.2 Accountability Management Create User Account Scenario	8.6.3 Accounting and Accountability Sequence
3.7 Resource Planning Activities	8.4.1 Resource Management Sequence
3.7.1 Resource Planning Scenario	8.2.1 Schedule Generation Sequence 8.5.2 Performance Monitering, Analysis & Testing Sequence
	9.2.1 Higher Level Processed Data Receipt from the V0 DAAC Sequence
	9.1.3 Early AM-1 Interface Test Support Sequence 9.2.5 Higher Level Processed Data Receipt from the NOAA ADC to the LaRC DAAC Sequence
	9.3.1 Reprocessing Request Receipt/Processing from the SCF (LaRC) Sequence
	9.5.3 Maintain Processing Plans and Schedules Sequence
	12.1.2 Multi-Site System Management Sequence
	12.4.4 ECS Data Set Interoperability Sequence
	12.5.1 Data Ingest, Data Server and Data Distribution Performance Sequence
3.8 Resource Management and Control Activities	8.4.1 Resource Management Sequence
3.8.1 Data Processing Host Routine Maintenance Scenario	
3.8.2 Installation of Software Upgrade Scenario	
3.9 Science Data Ingest Activities	
3.9.1 TRMM Level 0 Data Ingest Scenario	9.1.1 Data Ingest, Process, and Archive at LaRC DAAC from SDPF Sequence
	12.2.1 SDPF Data Handling and Processing Sequence 12.5.1 Data Ingest, Data Server and Data Distribution Performance Sequence
3.9.2 TRMM Data Ingest "Fault" Scenario	9.1.1 Data Ingest, Process, and Archive at LaRC DAAC from SDPF Sequence12.5.4 ECS Testability and Overall Capabilities
	Sequence

Operational Scenario	Test Sequence Number
3.9.3 TRMM Ancillary Data Ingest Scenario	9.1.1 Data Ingest, Process, and Archive at LaRC DAAC from SDPF Sequence
	9.2.1 Higher Level Processed Data Receipt from the V0 DAAC Sequence
	9.2.5 Higher Level Processed Data Receipt from the NOAA ADC to the LaRC DAAC Sequence
	12.2.1 SDPF Data Handling and Processing Sequence 12.4.4 ECS Data Set Interoperability Sequence
	12.5.1 Data Ingest, Data Server and Data Distribution Performance Sequence
3.9.4 Hard Media Ingest Scenario	
3.9.5 Version 0 Data Ingest Scenario	9.2.1 Higher Level Processed Data Receipt from the V0 DAAC Sequence
	12.4.4 ECS Data Set Interoperability Sequence
3.10 Science Data Archival Activities	
3.10.1 Startup of a New Data Server Scenario (Nominal)	9.1.1 Data Ingest, Process, and Archive at LaRC DAAC from SDPF Sequence
3.10.2 Data Insertion Scenario (nominal)	9.2.1 Higher Level Processed Data Receipt from the V0 DAAC Sequence
	9.2.5 Higher Level Processed Data Receipt from the NOAA ADC to the LaRC DAAC Sequence
	9.3.1 Reprocessing Request Receipt/Processing from the SCF (LaRC) Sequence
	12.4.4 ECS Data Set Interoperability Sequence
	12.5.1 Data Ingest, Data Server and Data Distribution Performance Sequence
3.10.3 Data Insertion Scenario (fault)	9.1.1 Data Ingest, Process, and Archive at LaRC DAAC from SDPF Sequence
3.11 Science Data Distribution Activities	
3.11.1 Network Data Distribution (Pull)	8.6.3 Accounting and Accountability Sequence
Scenario (Nominal)	10.1.1 ECS Desktop User Sequence
	10.2.2 LaRC SCF/ECS Sequence
	12.2.3 TRMM Data Product Distribution Sequence
	12.4.1 Science Data Search and Retrieval Sequence
	12.4.4 ECS Data Set Interoperability Sequence
	12.5.2 System Response Time Performance Sequence
3.11.2 Network Data Distribution (Push) Scenario (Nominal)	12.5.2 System Response Time Performance Sequence
3.11.3 Network Data Distribution (Push) Scenario (Fault)	

Operational Scenario	Test Sequence Number
3.11.4 Hard Media Distribution Scenario	10.1.1 ECS Desktop User Sequence 10.1.2 ECS/Version 0 (V0) System Interoperability Sequence 12.5.2 System Response Time Performance
O.44 5 Not and Data Distribution (D.11)	Sequence
3.11.5 Network Data Distribution (Pull) Scenario	
3.12 Production Planning Activities	
3.12.1 Routine Production Planning Scenario	8.2.1 Schedule Generation Sequence 9.3.1 Reprocessing Request Receipt/Processing from the SCF (LaRC) Sequence
	9.5.3 Maintain Processing Plans and Schedules Sequence
	12.2.1 SDPF Data Handling and Processing Sequence 12.5.1 Data Ingest, Data Server and Data Distribution Performance Sequence
3.12.2 Replanning Production Scenario	8.2.2 Schedule Adjudication Sequence 9.3.1 Reprocessing Request Receipt/Processing from the SCF (LaRC) Sequence
3.13 Production Processing	
3.13.1 Normal Production Processing Scenario	9.1.1 Data Ingest, Process, and Archive at LaRC DAAC from SDPF Sequence
	9.3.1 Reprocessing Request Receipt/Processing from the SCF (LaRC) Sequence
	12.5.1 Data Ingest, Data Server and Data Distribution Performance Sequence
3.13.2 Production Processing Job Anomaly Scenario	9.1.1 Data Ingest, Process, and Archive at LaRC DAAC from SDPF Sequence
3.13.3 Production Processing Job Modification Scenario	
3.14 User Services Activities	
3.14.1a End-to-End Order Tracking Scenario - Hard Media	10.1.1 ECS Desktop User Sequence 10.1.2 ECS/Version 0 (V0) System Interoperability Sequence 10.1.3 EOSDIS Core System (ECS)/Affiliated Data Center (ADC) Interoperability Sequence
3.14.1b End-to-End Order Tracking Scenario - FTP	10.1.1 ECS Desktop User Sequence 10.1.2 ECS/Version 0 (V0) System Interoperability Sequence 10.1.3 EOSDIS Core System (ECS)/Affiliated Data Center (ADC) Interoperability Sequence
3.14.2 Standard Procedures (Login) Scenario	
3.14.3 System Status Scenario	

Operational Scenario	Test Sequence Number
3.14.4 Place an Order for a Potential User Scenario	10.1.1 ECS Desktop User Sequence 10.1.2 ECS/Version 0 (V0) System Interoperability Sequence 10.1.3 EOSDIS Core System (ECS)/Affiliated Data Center (ADC) Interoperability Sequence
3.14.5 Non Conformance Report (Software problem) Scenario	
3.14.6 Lost User Password Scenario	

Appendix C. Test Procedures Mapped to M&O Operations Manual

This table lists each of the maintenance procedures from the <u>Maintenance and Operations</u> <u>Procedures (DID 611)</u> in the left column, and in the right column a list of test procedures which use that procedure.

(Note: This table was requested by GSFC DAAC. It will be filled in as the information becomes available)

Table C-1. Test Procedures Mapped to M&O Operations Manual

Table C-1. Test Procedures Mapped to Ma	-
Mission Operations Procedures for the ECS Project	Test Procedure Paragraph #
3. SYSTEM ADMINISTRATION	
3.1 System Startup and Shutdown	
3.1.1 Startup	
3.1.1.1 Cold - By Subsystem	
3.1.1.2 Warm - By Server Software	
3.1.2 Shutdown	
3.1.2.1 Normal - By Subsystem	
3.1.2.2 Emergency - By Subsystem	
3.1.2.3 Server - By Server Software	
3.1.3 Failover	
3.2 System Backup and Restore	
3.2.1 Incremental Backup	
3.2.2 Full Backup	
3.2.3 File Restore	
3.2.4 Complete System Restore	
3.2.5 Tape Handling	
3.2.5.1 Indexing Tapes	
3.2.5.2 Labeling Tapes	
3.3 System Log Maintenance	
3.4 User Administration	
3.4.1 Adding a User	
3.4.2 Deleting a User	
3.4.3 Changing a User Account Configuration	
3.4.4 Changing User Access Privileges	
3.4.5 Changing a User Password	
3.4.6 Checking a File/Directory Access Privilege Status	
3.4.7 Changing a File/Directory Access Privilege	
3.4.8 Moving a User's Home Directory	
3.5 Installing a New Workstation	
3.5.1 Preparation	
3.5.1.1 Hardware	
3.5.1.2 Network Configuration	
3.5.2 Installation	
3.5.2.1 Hardware	
3.5.2.1.1 Reporting to Inventory	

Mission Operations Procedures for the ECS Project	Test Procedure Paragraph #
3.5.2.2 Operating System Installation - By Operating System Type	3 1
3.5.2.2.1 Solaris 2.4 Operating System Installation	
3.5.2.2.2 HP-UX 9.05 Operating System Installation	
3.5.2.2.3 IRIX 5.3 and 6.2 Operating Systems Installation	
3.5.2.2.4 NCD Operating System Installation	
3.5.2.3 Software	
3.5.2.3.1 Custom	
3.5.2.3.2 COTS	
3.5.3 Testing and Verification	
3.5.3.1 Reboot	
3.5.3.1.1 SGI, HP and Sun	
3.5.3.1.2 NCD	
3.5.3.2 Logging In	
3.5.3.3 Test Environment	
3.6 DCE Configuration	
3.6.1 Initial Cell	
3.6.2 DTS Servers	
3.6.3 Additional CDS Servers	
3.6.4 Security and CDS Client Systems	
3.6.4.1 Unconfiguring DCE Client	
3.6.5 DTS Clerks	
3.6.6 CDS Servers	
3.6.7 Creating a Security Server Replica	
4. DATABASE ADMINISTRATION	
4.1 Product Installation and Disk Storage Management	
4.1.1 Installing SQL Server and Related Products and Upgrading	
New Version of SQL Server Products	
4.1.2 Migrating Databases to New Version SQL Server	
4.1.3 Allocating Resources	
4.1.3.1 Allocating Disk Space: Creating Database Devices,	
Maintaining Database Segments	
4.1.4 Monitoring and Managing Resource Utilization	
4.1.4.1 Use of Available Disk Space, Memory, Connection Error	
Logs, State of Transaction Logs, Device Problems, etc.	
4.2 SQL Server Lifecycle Maintenance	
4.2.1 Starting the Server	
4.2.2 Shutting Down the Server	
4.3 SQL Server Logins and Privileges	
4.3.1 Creating SQL Server Login Accounts	
4.3.2 Add User to Database(s)	
4.3.3 Granting Access Privileges To grant access privileges, the DRA must have the following TME	
To grant access privileges, the DBA must have the following TME administrator roles:	
4.3.4 Modifying Access Privileges	
4.4 Database Integrity	
4.4.1 Checking Consistency	
4.5 Database Backup and Recovery	
4.5.1 Database Backup 4.5.1 Database Backup	
4.5.2 Transaction Log Backup	
4.5.2 Transaction Log Backup 4.6 ECS DAAC-Configured Databases	
4.6.1 Database Size Estimates and Planning	
4.0.1 Database Size Estilliates and Planning	

Mission Operations Procedures for the ECS Project	Test Procedure Paragraph #
4.6.2 Database-unique Attributes	reserved and reserved in
4.6.3 Database Reports	
4.7 Database Tuning and Performance Monitoring	
4.7.1 Design and Indexing	
4.7.2 Queries	
4.7.3 Monitoring and Boosting Performance	
4.8 Troubleshooting	
4.8.1 Diagnosing Database System Problems	
4.8.1.1 Reports	
4.8.1.2 Queries	
4.8.2 On-call User Support and Emergency Response	
5. SECURITY SERVICES	
5.1 Running Security Management Log Analyst Program	
5.2 Reviewing User Activity Data	
5.3 Monitoring and Reviewing User Audit Trail Information	
5.4 Creating a DES User Key	
5.4 Kerberos Authentication	
5.5 SATAN	
5.6 Using Crack	
5.7 Npasswd	
5.8 Tcp_wrappers	
5.9 Tripwire	
5.10 Recovering from Security Breaches	
5.11 Reporting Security Breaches	
6. NETWORK ADMINISTRATION	
6.1 HPOpenView Network Node Manager (NNM)	
6.1.1 Starting NNM (Network Node Manager)	
6.1.2 Adding a Network Object	
6.1.3 Adding a Segment Object	
6.1.4 Adding a Node Object	
6.1.5 Adding an IP Interface Object	
6.1.6 Viewing the Current Network and System Configuration	
6.1.7 Viewing Network Address Information	
6.1.8 Viewing How Traffic is Routed on a Network	
6.1.9 Viewing the Services Available on a Node	
7. SYSTEM MONITORING	
7.1 Checking the Health and Status of the Network	
7.1.1 Starting NNM (Network Node Manager)	
7.1.2 Verify That an Object Is Not Functioning	
7.1.3 Looking at Maps for Color Alerts	
7.1.4 Looking at Maps for New Nodes	
7.1.5 Creating Special Submaps for Monitoring Status	
7.1.6 Checking for Event Notifications	
8. PROBLEM MANAGEMENT	
8.1 Problem Resolution Process — An Overview	
8.2 Using the Trouble Ticket System Tool	
8.2.1 Accessing the Trouble Ticket System	
8.2.1.1 Remedy's GUI Admin Tool	
8.2.1.2 Remedy's GUI Import Tool	
8.2.1.3 Remedy's Hardware Information Schema	
8.2.1.4 Remedy's GUI Notification Tool	
0.2.1.7 Remoty 5 OUT Notification 1001	

Mission Operations Procedures for the ECS Project	Test Procedure Paragraph #
8.2.2 Submit a Trouble Ticket	rest rivecture raragraph "
8.2.3 Reviewing and Modifying Open Trouble Tickets	
8.2.4 Forwarding Trouble Tickets	
8.2.5 Adding Users to Remedy	
8.2.6 Changing Privileges in Remedy	
8.2.7 Modifying Remedy's Configuration	
8.2.8 Generating Trouble Ticket Reports	
8.2.9 Re-prioritization of Dated Trouble Ticket Logs	
8.3 Using Hypertext Mark-up Language (HTML) Screens	
8.3.1 ECS Trouble Ticketing HTML Submit Screen	
8.3.2 ECS Trouble Ticketing HTML Submit Screen 8.3.2 ECS Trouble Ticketing HTML Success Screen	
8.3.3 ECS Trouble Ticketing HTML Success Screen	
8.3.4 ECS Trouble Ticketing HTML List Screen 8.3.4 ECS Trouble Ticketing HTML Detailed Screen	
8.3.5 ECS Trouble Ticketing HTML Betailed Screen	
8.4 Emergency Fixes	
8.5 Diagnosing Network Problems	
8.5.1 Performance Management	
9. CONFIGURATION MANAGEMENT	
9.1 Configuration Identification Procedure	
9.1.1 Purpose	
9.1.2 Applicable to	
9.1.3 References	
9.1.4 Procedures	
9.1.4.1 Extended Configuration Identification	
9.1.4.2 Other Procedures as Applicable	
9.2 Configuration Change Control Procedures	
9.2.1 Purpose	
9.2.2 Applicable to	
9.2.3 References	
9.2.4 Procedures	
9.2.4.1 Configuration Change Request Preparation	
9.2.4.2 Change Control Board Process (System and Site-level	
CCBs)	
9.2.4.3 Configuration Control - Deviation and Waivers	
9.3 Configuration Status Accounting Procedures	
9.3.1 Purpose	
9.3.2 Applicable to	
9.3.3 References	
9.3.4 Procedures	
9.4 Configuration Audits	
9.4.1 Purpose	
9.4.2 Applicable to	
9.4.3 References	
9.4.4 Procedures	
9.5 Data Management	
9.5.1 Purpose	
9.5.2 Applicable to	
9.5.3 References	
9.5.4 Procedures	
9.5.4.1 Information Preparation, Submittal, & Cataloguing	
9.5.4.1.1 Creation / Preparation	

9.5.4.1.2 Submission 9.5.4.1.3 Identification and numbering 9.5.4.1.4 Logging / Cataloguing 9.5.4.2 Information Review, Signoff, Release and Change/Revision 9.5.4.2.1 Document/Test data Review, Release, and Change Procedures Procedures 9.5.4.2.2 Review/Release 9.5.4.2.3 Information Distribution and Submission to ESDIS/ ECS 9.5.4.3.3 Information Distribution and Submission to ESDIS/ ECS 9.5.4.3.1 Data / Document Distribution/Submittal to ESDIS/ ECS 9.5.4.3.2 Occumentation Distribution 9.5.4.3.2 Occumentation Distribution 9.6 Archiving Procedures for the SW CM Manager (ClearCase) 9.6.1 Purpose 9.6.1 Purpose 9.6.2 Applicable to 9.6.3 References 9.6.4 Procedures 9.7.8 W Transfer and Installation 9.7.1 Purpose 9.7.2 Applicable to 9.7.3 References 9.7.4 Procedures 9.7.4 Procedures 9.7.4 Procedures 9.7.4.1 Overview 9.7.4.2 Operator Roles 9.7.4.2 Detailed Procedures 9.7.4.2 Detailed Procedures 9.8.1 Configuration Change Request Manager 9.8.1 Configuration Change Request Manager 9.8.2 Accessing Change Request Manager 9.8.3 Change Request Manager 9.8.4 Submit a CCR 9.8.5 Lasgin-Epulement State 9.8.5 Change State of CCR 9.8.5.1 Assign-Eval State 9.8.5.5 Close State 9.8.5.5 Close State 9.8.8.6 Modify CCR 9.8.7 Right State 9.8.8 Required Operating Environment 9.8.8.1 Interfaces and Data Types 9.8.8.5 Command Line Interface	Mission Operations Procedures for the ECS Project	Test Procedure Paragraph #
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21.1.3 Configuration Management 21.1.4 COTS Hardware Support Safety 21.2 COTS Hardware Support - Contract Information 21.2.1 Management of COTS Hardware Support Contracts	21.1.1 Corrective Maintenance	
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21.1.4 COTS Hardware Support Safety 21.2 COTS Hardware Support - Contract Information 21.2.1 Management of COTS Hardware Support Contracts	21.1.3 Configuration Management	
21.2 COTS Hardware Support - Contract Information 21.2.1 Management of COTS Hardware Support Contracts	<u> </u>	
21.2.1 Management of COTS Hardware Support Contracts		
	21.2.2 Contract Maintenance Terms	

Mission Operations Procedures for the ECS Project	Test Procedure Paragraph #
21.2.3 COTS Hardware Database	
21.3 Hardware Repairs - Standard	
21.3.1 Hardware Problem Reporting	
21.3.1 Hardware Flobletti Reporting 21.3.2 Initial Troubleshooting/Diagnostics	
21.3.3 Hardware Corrective Maintenance Actions	
21.3.4 Contract On-Site Hardware Support	
21.3.5 Return-to-Depot Support	
21.4 Maintenance Spares	
21.4.1 Installed Maintenance Spares	
21.4.2 Use of Maintenance Spares	
21.4.3 Return of Failed LRUs	
21.5 Non-standard Hardware Support	
21.5.1 Escalation of COTS Hardware Support Problem	
21.5.2 Time and Material (T&M) Hardware Support	
22. SOFTWARE MAINTENANCE	
22.1 COTS Software Maintenance	
22.1.1 Management of COTS Software Maintenance Contracts	
22.1.2 Management of COTS Software Licenses	
22.1.3 COTS Software Installation	
22.1.4 Obtaining COTS Software Support	
22.1.4.1 COTS Software Problem Reporting	
22.1.4.2 Troubleshooting COTS Software	
22.1.4.3 Corrective Action Reporting	
22.2 Custom Software Maintenance	
22.2.1 Implementation of Modifications	
22.2.2 Test Plans and Procedures	
22.2.3 Custom Software Installation	
22.2.3.1 Scheduling the Release	
22.2.3.2 Operations and User Notification	
22.2.3.3 Maintenance Changes to the On-Site SW Change Manager	
Library	
22.2.3.3.1 Branching Approach	
22.2.3.3.2 Configuring the Operational Environment	
22.2.3.3.3 Performing Merge Activities	
22.2.3.3.4 Configuration Specifications	
22.2.3.3.5 Branch Naming Conventions	
22.2.3.4 Creating the SW Build Using SW Change Manager	
(ClearCase)	
22.2.3.5 Promoting Software Using SW Change Manager	
(ClearCase)	
22.2.3.5.1 "Change State Script" Description	
22.2.3.5.2 Promotion_level Script Description	
22.2.3.6 Installing the New Release	
22.2.4 Obtaining Software Support	
22.2.4.1 SW Problem Reporting	
22.2.4.2 Troubleshooting	
22.2.4.3 Corrective Action Reporting	
22.2.5 Science Software	
23. PROPERTY MANAGEMENT	
23.1 Receipt of Equipment and Software	
23.2 Equipment Tagging	

Mission Operations Procedures for the ECS Project	Test Procedure Paragraph #
23.3 Property Records and Reporting	<u> </u>
23.3.1 Maintaining Property Records	
23.3.2 Property Reporting	
23.3.3 Reporting Loss, Theft, Damage or Destruction	
23.3.4 Obtaining Relief from Accountability	
23.4 Equipment Relocation	
23.4.1 Intra-site Relocation	
23.4.2 Inter-site Relocation	
23.4.3 Relocation Off-site for Vendor Repairs	
23.4.4 External Transfers	
23.5 Inventories and Audits	
23.6 Storage	
23.6.1 Segregation Requirements	
23.6.2 Stock Rotation	
23.6.3 Physical Security	
23.7 Packing and Shipping	
24. INSTALLATION PLANNING	
24.1 Responsibilities	
24.2 Process Description	
24.3 Maintenance of Facility and Network Diagrams	
24.4 Maintenance of LAN Cable Management Schema	
25. COTS TRAINING	
25.1 Requesting COTS Training	
25.2 Coordinating COTS Training	
25.3 Canceling/Rescheduling COTS Training	
25.4 Maintenance of COTS Training Records	
25.5 Contractor COTS Training Funds Accounting	
26. ON-LINE ADVERTISING SERVICE ADMINISTRATION	
26.1 Accessing ESOD	
26.2 ESOD Administration	
26.2.1 Create a Moderation Group	
26.2.2 Update a Moderation Group	
26.2.3 Delete a Moderation Group	
26.3 ESOD Moderation	
26.4 On-line Advertising Service Configuration Files	

Appendix D. Test Sequences Mapped to LaRC Hardware

This table lists each piece of hardware at the Release A ECS LaRC DAAC in the left column, and in the right column a list of test procedures which use that hardware as part of the procedure(s).

Table D-1. Test Sequences Mapped to LaRC Hardware

Subsystem	HWCI/CSCI	Platform	Custom Executables	сотѕ	Test Procedure Paragraph #
Ingest	ICLHW	ICLHW-LaRC 1.1,2 (Ingest server)	peer agent	Irix Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, net.h++, tools.h++, dbtools.h++, amass, sybase server, Remedy*, tivoli client, wabi/office, essm, sqr wkbch, Crack, Npassword, TCPWrappers, TripWire, netscape browser	
Ingest	ICLHW	ICLHW-LaRC 4,5 (LaRC-5 will be used for EDOS early interface testing)	IngestServer, IngestSession, CSS SDPF gateway, CSS TSDIS gateway, PollingIngest and RequestManager, peer agent, preprocessing executables, Ingest user and operator guis, advertising clients, staging disk class libraries, sdsrv wrapper	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, net.h++, tools.h++, dbtools.h++, sybase server, essm, Remedy*, tivoli client, wabi/office, netscape browser, Crack, Npassword, TCPWrappers, TripWire, kftp, ftp	
			subscription engine	kerberos, sqr wkbch	
CSS	DCHCI	CSS-LARC-1 (CSS server) and MSS- LARC-4 (MSS server)	DCE Directory, Security and Time servers, peer agent	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, net.h++, tools.h++, dbtools.h++, Remedy TT, tivoli client, wabi/office, netscape browser, mail server, Crack, Npassword, TCPWrappers, TripWire	
MSS	MSSHCI	MSS-LARC-4 (MSS server) and CSS- LARC-1 (CSS server)	MsAgDpty, peer agent	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, C, C++, Softbench, bx, graphpak, epak, net.h++, tools.h++, dbtools.h++, Remedy*, tivoli server, wabi/office, netscape browser, Sybase server, essm, sqr wkbch, PNM, HPOV	

Subsystem	HWCI/CSCI	Platform	Custom Executables	сотѕ	Test Procedure Paragraph #
				Crack, Npassword, TCPWrappers, TripWire, Satan, dce dev tlkt	
				HAL DCE cell manager	
MSS	MSSHCI	MSS-LaRC-1.1	Clearcase, peer agent, Software change manager (DDTS), Inventory change manager (SoftPC/MS Office), XRP II Baseline Manager,	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase server and client, tools.h++, dbtools.h++, Remedy*, tivoli client, wabi/office, netscape browser, sybase client, Crack, Npassword, TCPWrappers, TripWire, Satan	
				sqr wkbch	
MSS	MSSHCI	MSS-LaRC-3 (MSS WS)	GUI executables, peer agent	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, tools.h++, dbtools.h++, Remedy*, tivoli client, wabi/office, netscape browser, sybase client, Crack, Npassword, TCPWrappers, TripWire, sqr wkbch	
Data Server	ACMHW	ACMHW- LaRC-1,2 (Ops WS)	Ingest operator GUI, peer agent	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, tools.h++, dbtools.h++, Remedy*, tivoli client, wabi/office, netscape browser, Crack, Npassword, TCPWrappers, TripWire	
Data server	ACMHW	ACMHW- LaRC-3 and 4 (APC sybase server)	peer agent, STMGT Network resource manager	Irix Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, net.h++, tools.h++, dbtools.h++, sybase server, Remedy*, tivoli client, wabi/office, netscape browser, essm, sqr wkbch, Crack, Npassword, TCPWrappers, TripWire	
Data Server	ACMHW	MSS-MSFC-1 (becomes ACMHW- LaRC-5) front end to APC server	Science Data Server Process, peer agent, SDSRV admin process, STMGT network resource manager, STMGT pull monitor process, ingest server, ingest session, polling ingest, ingest request manager, advertising clients	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, tools.h++, dbtools.h++, Remedy*, tivoli client, wabi/office, netscape browser, sybase client, Crack, Npassword, TCPWrappers, TripWire, kftp, kerberos, sqr wkbch	
			CSS SDPF gateway, CSS TSDIS gateway, SDSRV wrapper, subscription engine, staging disk class libraries, cgi scripts		

Subsystem	HWCI/CSCI	Platform	Custom Executables	сотѕ	Test Procedure Paragraph #
Data Server	DIPHW	DIPHW-LaRC 1 and 2 (distribution server)	DDIST Distribution server process, peer agent, STMGT CDROM Resource management process, STMGT tape resource manager, STMGT printer resource manager	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, tools.h++, Remedy*, tivoli client, wabi/office, netscape browser, Crack, Npassword, TCPWrappers, TripWire, ftp	
Data Server	DRPHW	DRPHW- LaRC-1 and 2 (FSMS server)	peer agent, STMGT Staging Resource Manager Process, advertising client, STMGT archive manager	Irix Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, C, C++, f77, CaseVision, bx, graphpak, epak, net.h++, tools.h++, dbtools.h++, amass, Remedy*, tivoli client, wabi/office, netscape browser, dce dev tlkt, nfs	
				Crack, Npassword, TCPWrappers, TripWire	
Data Server	DRPHW	DIPHW- MSFC-2 (becomes DRPHW- LaRC-6) front end sun	peer agent, STMGT Staging Resource Manager Process, STMGT Staging Disk Monitor Process, advertising server, advertising client, ingest request manager	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, tools.h++, Remedy*, tivoli client, wabi/office, netscape browser, sybase client, dbtools.h++,Crack, Npassword, TCPWrappers, TripWire, sqr wkbch	
Data Server	DRPHW	DRPHW- LaRC-3 and 4 (DBMS server)	peer agent	Irix Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, tools.h++, dbtools.h++, sybase server, Remedy*, tivoli client, wabi/office, netscape browser, essm, sqr wkbch, Crack, Npassword, TCPWrappers, TripWire	
Data server	DDSHW	DDSHW- LaRC-1 and 2	Document Data server process, peer agent, document repository process, www server process (secured, and unsecured), Advertising Custom CGI Bin Programs, advertising clients	Op sys, snmp agent, dce, oodce, motif, x1115, clearcase client, tools.h++, Remedy*, tivoli client, wabi/office, netscape commerce server, TOPIC server, illustra, sqr wkbch, dbtools.h++,Crack, Npassword, TCPWrappers, TripWire	
				Netscape server (secured and unsecured; must be secured for DNS lookup)	

Subsystem	HWCI/CSCI	Platform	Custom Executables	сотѕ	Test Procedure Paragraph #
Planning	PLNHW	PLNHW-LaRC 1 (Planning server), SPRHW- LaRC-7 (queuing server)	peer agent, Resource planning application, Production planning application, subscription manager, advertising clients, delphi hcl,	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, tools.h++, Graphpak, dbtools.h++, sybase server, essm, net.h++, Remedy*, tivoli client, wabi/office, sqr wkbch	
			Autosys DB server (shadow), Autosys event processor (backup), execution manager, data manager, Resource manager, Autosys operators console, AutoXpert (including jobscape, timescape, hostscape)	Npassword, TCPWrappers, TripWire, netscape browser, Autosys, AutoXpert	
			PDPS Database server		
		SPRHW-Larc-7		C, C++, SparcWorks, Bx, Epak, multithreaded debugger	
Planning		PLNHW-LaRC 2 Planning Workstation	peer agent, Prodution planning application, Resource Planning application, Autosys Operators console, AutoXpert (including Jobscape, TimeScape and Hostscape), ECS Desktop	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, tools.h++, dbtools.h++, sybase client, Remedy*, tivoli client, wabi/office, netscape browser,Crack, Npassword, TCPWrappers, TripWire, sqr wkbch	
Processing	SPRHW	SPRHW- LaRC-5,6 (Science Processor)	Autosys remote agent, peer agent (currently does not run), HDF-EOS, SDP Toolkit, Data Preprocessing, Science software, Processing support scripts	Irix Op sys, snmp agent, dce, motif, x11r5, clearcase client, C, C++, F77, Ada, F90, CaseVision, bx, graphpak, epak, tools.h++, dbtools.h++, sybase client, Remedy*, wabi/office, netscape browser, IDL, IMSL autosys, autoxpert, autosys remote agent	
				Crack, Npassword, TCPWrappers, TripWire, kftp, kerberos, sqr wkbch	
Processing	AQAHW	AQAHW- LaRC-1 (QA workstation)	Ops QA monitor, ECS DSKTP, peer agent, EOSView, HDF-EOS	Irix Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, tools.h++, dbtools.h++, Remedy*, wabi/office, netscape browser, IDL, IMSL,Crack, Npassword, TCPWrappers, TripWire	

Subsystem	HWCI/CSCI	Platform	Custom Executables	сотѕ	Test Procedure Paragraph #
Processing	AITHW	AITHW-LaRC 1,2,3 (these are Ir1 machines. MRS will Release A dedicated machines)	Production planning application, Resource Planning application, peer agent	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, C, C++, Sparcworks, bx, graphpak, epak, tools.h++, dbtools.h++, Remedy*, tivoli client, dce dev tlkt, wabi/office, netscape browser, f77, f90, ada, idl, imsl	
			Document viewing, AIT Manager GUI, AI&T Tools, PGE Processing GUI, PGE Registration GUI, AutoSysy Operators Console	Sybase Client, FORCHECK, Ghostview, emacs, Adobe acrobat, Netscape browser, WABI, XEDIT, autosys remote agent, kftp, kerberos, sqr wkbch, NCSA mosaic	
			AutoSys Xpert GUIs (TimeScape, JobScape, HostScape), ECS DSKTP, EosView, HDF-EOS,	Crack, Npassword, TCPWrappers, TripWire	
Processing	AITHW	AIT Workstation / DBMS Server	Subscription manager, PDPS DB server. Autosys DB server, AutoSys Event Processor, Autosys Agent, Data Manager, Execution Manager, Resource Manager, peer agent, ECS Desktop, advertising clients	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, C, C++, Sparcworks, bx, graphpak, epak, tools.h++, dbtools.h++, Remedy*, tivoli client, dce dev tlkt, wabi/office, netscape browser, f77, f90, ada, idl, imsl	
			SDP Toolkit, HDF- EOS	Sybase server, FORCHECK, Ghostview, emacs, Adobe acrobat, Netscape browser, WABI, XEDIT, autosys remote agent, essm, sqr wkbch	
				FORCHECK, Ghostview, emacs, Adobe acrobat, WABI, XEDIT, Crack, Npassword, TCPWrappers, TripWire	
Data Management	DMGHW	DMGHW- LARC-1, 2, 3 (Data Specialist Workstation)	Specialist GUIs, peer agent	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, tools.h++, dbtools.h++, Remedy*, tivoli client, wabi/office, Sybase client, netscape browser, Crack, Npassword, TCPWrappers, TripWire, sqr wkbch	
Data Management	DMGHW	DMGHW- LaRC-6 (DBA Ops Workstation)	Specialist GUIs, peer Agent	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, tools.h++, dbtools.h++, Remedy*, tivoli client, wabi/office,Sybase client, netscape browser, Crack, Npassword, TCPWrappers, TripWire, sqr wkbch	

Subsystem	HWCI/CSCI	Platform	Custom Executables	сотѕ	Test Procedure Paragraph #
Data Management	DMGHW	DMGHW- LaRC-4,5 (DMG Server)	DMG Gateway, CSS Gateway executables - 2 processes per connection, peer agent	Op sys, snmp agent, dce, oodce, motif, x11r5, clearcase client, tools.h++, dbtools.h++, Remedy*, tivoli client, wabi/office, Sybase server & client, netscape browser, kerberos, Crack, Npassword, TCPWrappers, TripWire	
			CSS Gateway executables - 2 processes per connection	net.h++, essm, sqr wkbch, kftp	
Interoperability	ADSHWCI co-located with DMGHWCI	DMGHW- LaRC-4,5 (DMG Server)	COTS Sybase Replication server, COTS Sybase SQL Server, Custom Advertising Server, Custom Library for Advertising Clients, COTS Sybase Admin Tools (essm), peer agent		
	Users and Operators Workstation		Custom Installer Program	C++, Motif, FTP, Tools.h++, Miller C++ Libraries (Public Domain)	
Client	DESKT	All operator workstations and servers (if xterms access servers)	EcsDesktop	ROGUEWAVE tools.h++ OODCE DCE C/C++ Doug Young's Libtrary for Motiff/C++ 1992 Epak Widgets	
				Motif Window Manager, mwm (Solaris or SunOS) or platform dependent alternative: Vuewm (HP), 4Dwm (SGI), NCDs (NCDwm), etc.	
				Web browser: Netscape	
				DCE OODCE Motif or CDE with equivalent Motif version ICS Builder Xcessory ICS EPak widgets RogueWave tools.h++ C/C++ compilers and debuggers	
				Doug Youngs's C++ library for Motif 1992 version ECS C++ widget wrapper library (TBD)	
Client	WKBCH		User Registration Tool User Profile Tool	Same as Client	

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Appendix E. Test Procedure Format

The following contain a test procedure template, with annotations describing what each item contains.

E.1 Scenario Test Group

Each Scenario Group begins with an overview paragraph describing the Scenario Group.

E.1.1 Scenario Title

Each Scenario begins with a paragraph summarizing the Scenario.

E.1.1.1 Sequence Title

Each Sequence has a brief summary describing this sequence of tests.

Configuration: The subsystems needed to perform this sequence of tests are listed here. Appendix D contains additional detail.

External Interfaces: The external interfaces (i.e. other ECS sites and data sources) needed for a sequence (both real and simulated) are listed.

Operator Position(s): The operator positions from the <u>ECS Maintenance and Operations Position</u> <u>Descriptions</u> document (607/OP2) needed to support a sequence are listed.

Operational Scenario(s): The operations scenarios, taken from the <u>Operations Scenarios for the ECS Project: Release-A</u> document (605/OP1), that were used to develop tests in this sequence of tests are listed.

Test Dependencies: This table identifies the test procedure(s) in a sequence of tests that should be run prior to or concurrently with a sequence or test procedure.

Test Procedure No.	Site/Procedure No.	Comments
Insert proc. # for this volume	List site/proc. #	Prior or Concurrent

E.1.1.1.1 Procedure Title

TEST Procedure No.: A unique #, taken from the Acceptance Test Plan, used to identify the test in RTM		Fill	te Executed: ed in on the date the mal test is run	Test Conductor The test conductor for	or this site		
Title:	The titl	le of the te	st				
Objective: A brief statement description.			nt of the objective of this procedure, taken from the ATP test case				
Require	ements	;	Acceptance Criteria				
Requirements Requirement i.d. from RTM (i.e. DADS1700#A		b. c. prosy.	For each requirement verified in a procedure the acceptance criteria contains the following information in the order shown below: a. The Verification method (inspection, analysis, demonstration or test) b. The text of the requirement c. A brief description of HOW the requirement is verified in the test procedure. This description may specify certain functions that the system must perform, specifications or standards that must be complied with, or performance criteria (such as responses times or throughput) that must be met.				
Test Inputs: For each procedure, specific test inputs are identified and listed in the table below							
Data Set N	lame	Data Se	t ID	File Name	Description	Version	
Descriptive na	me	me data set identifier		name of the physical file containing the	a brief description of what is in the file	A version control	

data

number

Step-By-Step Procedures				
Step No.	Input Action / Expected Results	Pass / Fail / Comments		
10	Contains a description of a particular input, or action to be taken by a tester or operator, OR an expected result from the system under test.	Brief explanation of why a step may have failed, or a deviation from the written procedures, and a reference to an NCR, if applicable.		
20				
30				
etc.				

Data Reduction and Analysis Steps:

This section describes the method used for data reduction and includes instructions necessary to complete the analysis of test results. If applicable, the XRunner and LoadRunner reports generated during script execution are also described in this section. A list of all test outputs that need to be secured after testing (i.e. screen dumps, system logs, etc.) is also included here.

Signature:	Witness or testers signature	Date: Date the test is signed off
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Abbreviations and Acronyms

ACMHW Access and Control Management Hardware

ADC Affiliated Data Center

ADSVR Advertising Data Server

Al&T Algorithm Integration and Test

AITHW Algorithm Integration and Test Hardware

AM-1 EOS AM Project (morning spacecraft series)

API application programming interface

ARP address resolution protocols

ASF Alaska SAR Facility (DAAC)

ASTER Advanced Spaceborne Thermal Emission and Reflection Radiometer

(formerly ITIR)

ATC Actual Time Command

ATP Acceptance Test Plan

ATPR Acceptance Test Procedures

ATT Acceptance Test Team

AVHRR Advanced Very High Resolution Radiometer

BER bit error rate

BGP boundary gateway protocol

CASE Computer Aided Software Engineering

CAST Computer Aided Software Test

CCR Configuration Change Request

CCSDS Consultative Committee for Space Data Systems

CDRL Contract Data Requirements List

CERES Clouds and Earth's Radiant Energy System

CIESIN Consortium for International Earth Science Information Network

CIO Contents Identifier Object

CLS Client Subsystem

CM Configuration Management

cmi continuous measurable improvement

CMO Configuration Management Office

COTR Contracting Officer's Technical Representative

COTS Commercial Off-The-Shelf (hardware or software)

CSR Consent to Ship Review

CSS Communications Subsystem

CZCS Coastal Zone Color Scanner

DAAC Distributed Active Archive Center

DAS Daily Activity Schedule

DBMS Data Base Management System

DCN Document Change Notice

DDICT Data Dictionary

DDTS Distributed Defect Tracking System

DDN Data Delivery Notice

DDS Data Document Server

DDIST Data Distribution

DES Data Encryption Standard

DHF Data Handling Facility

DIPHW Distribution and Ingest Peripheral Hardware

DID Data Item Description

DIT Data Ingest Technician

DIF Data Interface Facility (EDOS);

DMGHW Data Management Hardware Sytstem

DMS Data Management System

DOF Distributed Object Framework

DPS Data Processing Subsystem

DSA directory service agent

DSN Deep Space Network

DSS Data Server Subsystem

EAS ECS Advertising Service

Ecom ECS Communications

ECS EOSDIS Core System

EDC EROS Data Center (DAAC)

EDF ECS Development Facility

EDHS ECS Data Handling System

EDOS EOS Data and Operations System

ED-Net EOSDIS Backbone Network

EDU Exchange Data Unit

EGS EOS Ground System

EMC Enterprise Monitoring and Coordination

EOC EOS Operations Center

EOS Earth Observing System

EOSDIS Earth Observing System Data and Information System

ERBE Earth Radiation Budget Experiment

EROS Earth Resources Observation System

ESDIS Earth Science Data and Information System

ESN ECS Science Network

ETS EOSDIS Test System

F&PRS Functional and Performance Requirement Specification

FCA Functional Configuration Audits

FDF Flight Dynamics Facility

FOS Flight Operations System

FOT Flight Operations Team

FTP File Transfer Protocol

GATT Government Acceptance Test Team

GCDIS Global Change Data Information System

GCMO Global Change Master Directory

GDS ground data system

GN Ground Network

GPCP Global Precipitation Climatology Project

GPI GOES Precipitation Index

GSFC Goddard Space Flight Center

GUI Graphic User Interface

GV TRMM Ground Verification

HTML Hypet-Text Markup Language

I/O Input/Output

I&T Integration and Test

IATO Independent Acceptance Test Organization

ICLHW Ingest Client Hardware

ICMP Internet Control Message Protocol

IDR Incremental Design Review

IGS International Ground Station

ILS Integrated Logistics Support

IMS Information Management System

INS Ingest Subsystem

IOS Interoperability Subsystem

IOT Instrument Operations Team

IP Internet Protocol

IR Interim Release

IRD Interface Requirements Document

ISCCP International Satellite Cloud Climatology Project

ISS Internetworking Subsystem

ISS Information Subsystem

IST Instrument Support Terminal

IV&V Independent Verification and Validation

JPL Jet Propulsion Laboratory

L0–L4 Level 0 through Level 4 data

LOR Level 0 Reformatted

LPS Landsat Processing System

L-7 Landsat 7

LAN Local Area Network

LaRC Langley Research Center

LIS Lighting Imaging Sensor

LSM Local System Management

LSM Local Site Manager

LTIP Long Term Instrument Plan

LTSP Long Term Spacecraft Plan

LVOs Label Value Objects

M&O Maintenance and Operations

MAC Medium Access Control

MDT mean down time

MIB Management Information Base

MIME Multi-purpose Internet Mail Extension

MISR Multi-Angle Imaging SpectroRadiometer

MITI Ministry of International Trade and Industry (Japan)

MODIS Moderate Resolution Imaging Spectrometer

MOPITT Measurements of Pollution in the Troposphere

NA Network Analysis

MSFC Marshall Space Flight Center

MSS Management Subsystem

MTBM Mean-Time Between Maintenance

NAB National Association of Broadcasters

NARA National Archives and Records Administration

NASA National Aeronautics and Space Administration

NASCOM NASA Communications

NCC Network Communication Center

NCDC National Climatic Data Center

NCR Non Conformance Report

NGDC National Geophysical Data Center

NIST National Institute for Standards and Technology

NLDN National Lightening Detection Network

NMC National Meteorological Center (NOAA)

NOAA National Oceanic and Atmospheric Administration

NODC National Oceanic Data Center

NOLAN Nascom Operational Local Area Network

NRCA Nonconformance Reporting and Corrective Action

NSI NASA Science Internet

NSIDC National Snow and Ice Data Center

OA Office Automation

ODC Other Data Center

ODFs Operational Data Files

OJT On-the-Job Training

ORNL Oak Ridge National Laboratory

OSI Open Systems Interconnection

OSPF Open Shortest Path First (routing protocol)

OTD Optical Transient Detector

PA Product Assurance

PCAs Physical Configuration Audits

PDPS Product Development and Processing System

PDR Preliminary Design Review

PDS Production Data Set

PIs Principal Investigators

PLS Planning Subsystem

PLNHW Planning Hardware

PM Performance Manager

PR Precipitation Radar

QA Quality Assurance

QO Quality Office

RIO Reference Identifier Object

RIP Routing Information Protocol (207)

RM Resource Manager

RMA Reliability, Maintainability, Availability

RRR Release Readiness Review

RTM Requirements & Traceability Management

S/C spacecraft

SA System Administrator

SAA Satellite Active Archive

SAGE Stratospheric Aerosol and Gas Experiment

SAR Synthetic Aperture Radar

SCC Spacecraft Computer

SCF Science Computing Facility

SDL Software Development Library

SDPF Sensor Data Processing Facility

SDPS Science Data Processing Segment

SDR System Design Review

SDSVR Science Data Server

SI&T System Integration and Test Organization

SMC System Management Center

SME Subject Matter Expert

SMMR Scanning Multichannel Microwave Radiometer

SMPTE Society of Motion Picture & Television Engineers

SMS Systems Management Subsystem

SNMP Simple Network Management Protocol

SORR Segment Operational Readiness Review

SPRHW Science Processing Hardware

SSITT Science Software Integration and Test Team

SSM/I Special Sensor Microwave/Imager

SSR Solid State Recorder

SUT System Under Test

SW Software

SWE Snow Water Equivalent

TB tera-byte

TDRSS Tracking and Data Relay Satellite System

TMI TRMM Microwave Imager

TOMS Total Ozone Mapping Spectometer

TOO Target of Opportunity

TOVS Television Infrared Observing Satellite (TIOS) Operational Vertical Sounder

TRMM Tropical Rainfall Measurement Mission

TRR Test Readiness Review

TSDIS TRMM Science Data and Information Systems

TSL Test Script Language

TSS TDRSS Service Session

UR Universal Reference

V0 Version 0

VIRS Visible Infrared Scanner

WAN Wide Area Network

WOTS Wallops Orbital Tracking Station

Glossary

Analysis Technical or mathematical evaluation based on calculation, interpolation, or

other analytical methods. Analysis involves the processing of accumulated

data obtained from other verification methods.

Consent to Ship Review to determine the readiness of a release for transition sites Review

(CSR) for integration testing.

Critical Design A detailed review of the element/segment-level design, including Review

(CDR)such details as Program Design Language (PDL) for key software

modules, and element interfaces associated with a release.

Demonstration Observation of the functional operation of the verification item in a controlled

environment to yield qualitative results without the use of elaborate

instrumentation or special test equipment.

Incremental Design Review conducted to evaluate segment designs associated with a Review

(IDR) release.

Inspection The visual, manual examination of the verification item and comparison to

the applicable requirement or other compliance documentation, such as

engineering drawings.

Scenario Group A collection of scenarios that form one of the broadest functional

subdivisions of the system.

Scenario A functional subdivision of a Scenario Group which is designed and

executed independently.

Sequence A subdivision of a scenario which is designed to verify a number of

functionally related requirements

Release Readiness
Conducted at the ECS system level for a GSFC Project Review Review

(RRR) Team upon completion of release acceptance testing. The IATO leads the RRR to determine, with the GATT and the COTR, if the release is ready to be delivered, installed, and incorporated into the operational system.

ready to be derivered, instanced, and meorporated into the operational system

A procedure or action taken to determine under real or simulated conditions the capabilities, limitations, characteristics, effectiveness, reliability, or

suitability of a material device, system, or method.

Test Case A relatively small grouping of requirements that form the building blocks of

a sequence.

Test

Test Procedure A detailed, step-by-step test of a logically related group of requirements